

PATENT
Docket No. 275102001001

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RHEA AMID

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

M. J. VERMEULEN et al.

Serial No.: Continuation of 09/341,400

Filing Date: November 14, 2000

For: NOVEL POLYAMINE ANALOGUES
AS THERAPEUTIC AND DIAGNOSTIC
AGENTS

Examiner: TO BE ASSIGNED

Group Art Unit: TO BE ASSIGNED

PRELIMINARY AMENDMENT

Box PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Prior to calculation of the fees and examination of this application, please amend the application as follows:

In the specification:

On page 1, first line after the title, please insert the following

--This application is a continuation of 09/341,400, filed September 3, 1999, allowed,

now U.S. Patent No. 6,172,261
which is a 371 of PCT/US98/14896, filed July 15, 1998, which claims benefit of priority from

A U.S. provisional applications 60/052,586, filed July 15, 1997, 60/065,728, filed November 14, 1997, and 60/085,538, filed May 15, 1998.

In the claims:

Please cancel claims 1-35.

Please enter the following new claims:

C sub A2 *B* ~~36. A polyamine derivative, or salt thereof, wherein said derivative has the formula R₁-X-R₂ wherein R₁-X- is of the formula R-NH-CR'R"-CO- wherein -NH-CR'R"-CO- is a D- or L- form of valine, asparagine, or glutamine, or the D- form of lysine or arginine, and where R" is H, or an analogue thereof wherein R" is CH₃, CH₂CH₃, or CHF₂; R is H or a head group selected from the group consisting of a straight or branched C₁₋₁₀ aliphatic, alicyclic, single or multiring aromatic, single or multiring aryl substituted aliphatic, aliphatic-substituted single or multiring aromatic, a single or multiring heterocycle, a single or multiring heterocyclic-substituted aliphatic and an aliphatic-substituted aromatic; and R₂ is a polyamine.~~

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~~36. A polyamine derivative, or salt thereof, wherein said derivative has the formula R₁-X-R₂ wherein R₁-X- is of the formula R-NH-CR'R"-CO- wherein -NH-CR'R"-CO- is a D- or L- form of valine, asparagine, or glutamine, or the D- form of lysine or arginine, and where R" is H, or an analogue thereof wherein R" is CH₃, CH₂CH₃, or CHF₂; R is H or a head group selected from the group consisting of a straight or branched C₁₋₁₀ aliphatic, alicyclic, single or multiring aromatic, single or multiring aryl substituted aliphatic, aliphatic-substituted single or multiring aromatic, a single or multiring heterocycle, a single or multiring heterocyclic-substituted aliphatic and an aliphatic-substituted aromatic; and R₂ is a polyamine.~~

37. The derivative of claim 36 wherein R is H.

38. The derivative of claim 37 wherein -NH-CR'R"-CO- is the D- form of lysine.

39. The derivative of claim 38 wherein R₂ is spermine.

40. The derivative of claim 39 wherein R₁-X- is attached to spermine at the N₁ position of spermine.